

**ABSTRACT**

Particle detection and characterizing apparatus has an insulating tube along which the particles flow. Five electrodes spaced along the outside of the tube are connected via amplifiers to a processor arranged to measure the charge on the particles. The apparatus also includes a laser and photomultiplier tube arranged to measure the size of the particles so that the nature of the particles can be characterized from their electrical charge and size.

## Application Data Sheet

### Application Information

**Application Type::** Regular  
**Subject Matter::** Utility  
**Suggested classification::**  
**Suggested Group Art Unit::**  
**CD-ROM or CD-R?::** None  
**Computer Readable Form (CRF)?::** No  
**Title::** PARTICLE DETECTION  
**Attorney Docket Number::** 041129-0115  
**Request for Early Publication?::** No  
**Request for Non-Publication?::** No  
**Suggested Drawing Figure::**  
**Total Drawing Sheets::** 7  
**Small Entity?::** No  
**Petition included?::** No  
**Secrecy Order in Parent Appl.?::** No

### Applicant Information

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**Domestic Priority Information**

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
This Application	National Stage of	PCT/GB2004/003755	09/03/2004

**Foreign Priority Information**

Country::	Application number::	Filing Date::	Priority Claimed::
Great Britain	0320809.7	9/5/2003	Yes

**Assignee Information**

**Assignee Name::** SMITHS GROUP PLC